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**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application:

**Listing of Claims:**

1 (currently amended). A surgical clip applier for applying a surgical clip having two clip arms each with a longitudinal length and a substantially rectangular cross-section, the clip applier comprising:

- a) a hollow member having a proximal end and a distal end;
- b) a clevis coupled to said distal end of said hollow member;
- c) a first jaw rotatably coupled to said clevis;
- d) a second jaw rotatably coupled to said clevis in opposed relation to said first jaw, said first and second jaws having a respective longitudinal extent, at least one of said first and second jaws defining a clip-sliding channel:  
  
extending substantially along said longitudinal extent;  
[[and]]

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having a rectangular cross-section substantially corresponding to the cross-section of one surgical clip arm;

having a longitudinal length greater than the longitudinal length of the one arm to define a clip-holding portion and a clip-sliding portion; and

slidably guiding the surgical clip longitudinally along said clip-sliding portion when being shaped to guide a surgical clip, said first and second jaws adapted to slidably apply the surgical clip [[with]] to tissue disposed therebetween said channel;

e) at least one pull/push wire coupled to said first and second jaws and extending through said hollow member to said proximal end of said hollow member;

f) actuation means coupled to said proximal end of said hollow member and said proximal end of said first push/pull wire for moving said first push/pull wire through said hollow member to cause a rotation of said first and second jaws about said clevis from an open to a closed position, wherein

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at least one of said jaws is provided with a plurality of teeth arranged to puncture and damage tissue adjacent to the surgical clip.

2 (original). A surgical clip applier according to claim 1, wherein:

both of said jaws are provided with a plurality of teeth arranged to puncture and damage tissue adjacent two sides of the surgical clip.

3 (previously presented). A surgical clip applier according to claim 1, wherein at least one of said jaws has a clip guiding channel and a hook shaped anvil at the end of said channel.

4 (currently amended). A surgical clip applier according to claim 3, wherein each of said first and second jaws has said clip-sliding ~~a clip guiding~~ channel and a hook shaped anvil at the end of said clip-sliding channel.

5 (original). A surgical clip applier according to claim 4, wherein:

each of said anvils has a helical surface.

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6 (original). A surgical clip applier according to claim 4,  
wherein:

each of said anvils has a curved surface.

7 (original). A surgical clip applier according to claim 6,  
wherein:

said surface is curved about a single axis.

8 (original). A surgical clip applier according to claim 4,  
wherein:

each of said jaws has a longitudinal axis and a vertical axis  
perpendicular to the longitudinal axis, and

each of said channels is arranged at an angle relative to said  
vertical axis.

9 (original). A surgical clip applier according to claim 8,  
wherein:

said angle is approximately 22 degrees.

10 (currently amended). A surgical clip applier for applying a  
surgical clip having two clip arms each with a longitudinal

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length and a substantially rectangular cross-section, the clip applier comprising:

- a) a hollow member having a proximal end and a distal end;
- b) a clevis coupled to said distal end of said hollow member;
- c) a first jaw rotatably coupled to said clevis, said first jaw having a longitudinal extent and a first clip-sliding guiding channel disposed substantially along said longitudinal extent and terminating in a first anvil;
- d) a second jaw rotatably coupled to said clevis in opposed relation to said first jaw, said second jaw having a longitudinal extent and a second clip-sliding guiding channel disposed substantially along said longitudinal extent and terminating in a second anvil, each of said first and second clip-sliding channels:

having a rectangular cross-section substantially corresponding to the cross-section of one of the surgical clip arms;

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a longitudinal length greater than the longitudinal length of the respective arm to define a clip-holding portion and a clip-sliding portion; and

slidably guiding the surgical clip longitudinally along said clip-sliding portion when said first and second jaws adapted to slidably apply [[a]] the surgical clip [[with]] to tissue disposed therebetween said first and second clip guiding channels;

e) at least one pull/push wire coupled to said first and second jaws and extending through said hollow member to said proximal end of said hollow member; and

f) actuation means coupled to said proximal end of said hollow member and said proximal end of said first push/pull wire for moving said first push/pull wire through said hollow member to cause a rotation of said first and second jaws about said clevis from an open to a closed position.

11 (original). A surgical clip applier according to claim 10, wherein:

each of said anvils has a curved surface.

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12 (original). A surgical clip applier according to claim 10,  
wherein:

each of said anvils has a helical surface.

13 (original). A surgical clip applier according to claim 10,  
wherein:

each of said jaws has a longitudinal axis and a vertical axis  
perpendicular to the longitudinal axis, and

each of said channels is arranged at an angle relative to said  
vertical axis.

14 (original). A surgical clip applier according to claim 13,  
wherein:

said angle is approximately 22 degrees.

15 (previously presented). An endoscopic surgical instrument,  
comprising:

- a) a hollow member having a proximal end and a distal end;
- b) a clevis coupled to said distal end of said hollow member;

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- c) a first end effector rotatably coupled to said clevis;
- d) a first pull/push wire extending through said hollow member to said proximal end of said hollow member;
- e) a first linkage including a first rotating element rotatably coupled to said clevis and coupled to said first push/pull wire, and a second element rotatably coupled to said first element and rotatably coupled to said first end effector for increasing mechanical advantage of effector closure; and
- f) actuation means coupled to said proximal end of said hollow member and said proximal end of said first push/pull wire for moving said first push/pull wire through said hollow member to cause a rotation of said first end effector about said clevis.

16 (previously presented). An endoscopic surgical instrument according to claim 15, further comprising:

- g) a second end effector rotatably coupled to said clevis and in opposed relation to said first end effector;
- h) a second pull/push wire extending through said hollow member to said proximal end of said hollow member; and

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i) a second linkage including third and fourth elements, said third element rotatably coupled to said clevis and coupled to said second push/pull wire, and said fourth element rotatably coupled to said third element and rotatably coupled to said second end effector for increasing mechanical advantage of effector closure,

wherein said actuation means is coupled to said second push/pull wire for moving said second push/pull wire through said hollow member to cause a rotation of said second end effector about said clevis.

17 (original). An endoscopic surgical instrument according to claim 15, wherein:

    said first element is a substantially L-shaped member having an elbow rotatably coupled to said clevis.

18 (original). An endoscopic surgical instrument according to claim 17, wherein:

    said substantially L-shaped member has a first arm of a first length to which said first push/pull wire is coupled and a second arm of a second length to which said second element is coupled, said first length being longer than said second length.

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19 (original). An endoscopic surgical instrument according to claim 18, wherein:

said second element has a third length, said third length being shorter than said first length.

20 (original). An endoscopic surgical instrument according to claim 16, wherein:

said first and third elements each comprise a substantially L-shaped member having an elbow rotatably coupled to said clevis.

21 (original). An endoscopic surgical instrument according to claim 20, wherein:

each substantially L-shaped member has a first arm of a first length to which said first and second push/pull wires are respectively coupled and a second arm of a second length to which said second and fourth elements are respectively coupled, said first length being longer than said second length.

22 (original). An endoscopic surgical instrument according to claim 21, wherein:

said second element has a third length, said third length being shorter than said first length.

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23 (previously presented). An endoscopic surgical instrument, comprising:

- a) a hollow member having a proximal end and a distal end;
- b) a clevis coupled to said distal end of said hollow member;
- c) a first end effector rotatably coupled to said clevis;
- d) a first pull/push wire extending through said hollow member to said proximal end of said hollow member;
- e) a first linkage including at least two elements:
  - a first of said two elements rotatably coupled to said clevis and coupled to said first push/pull wire; and
  - a second of said two elements rotatably coupled to said first element and to said first end effector, said first linkage providing mechanical advantage in rotating said first end effector; and
- f) actuation means coupled to said proximal end of said hollow member and said proximal end of said first push/pull wire for

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moving said first push/pull wire through said hollow member to cause a rotation of said first end effector about said clevis.

24 (previously presented). An endoscopic surgical instrument according to claim 23 further comprising:

g) a second end effector rotatably coupled to said clevis;

h) a second pull/push wire extending through said hollow member to said proximal end of said hollow member;

i) a second linkage including at least two elements:

a first of said two elements rotatably coupled to said clevis and coupled to said second push/pull wire; and

a second of said two elements coupled to said first element and to said second end effector, said second linkage providing mechanical advantage in rotating said second end effector; and

said actuation means coupled to said proximal end of said second push/pull wire for moving said second push/pull wire through

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said hollow member to cause a rotation of said second end effector about said clevis.

25 (withdrawn). A surgical clip application assembly, comprising:

a surgical clip; and

a surgical clip applier having:

a hollow member having a proximal end and a distal end;

a clevis coupled to said distal end of said hollow member;

a first jaw rotatably coupled to said clevis;

a second jaw rotatably coupled to said clevis in opposed relation to said first jaw, said first and second jaws adapted to apply said surgical clip to a location;

at least one pull/push wire coupled to said first and second jaws and extending through said hollow member to said proximal end of said hollow member; and

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actuation means coupled to said proximal end of said hollow member and to said proximal end of said first push/pull wire for moving said first push/pull wire through said hollow member to cause a rotation of said first and second jaws about said clevis from an open to a closed position, wherein at least one of said jaws is provided with a plurality of teeth arranged to puncture and damage tissue adjacent to said surgical clip at said location.

26 (withdrawn). A surgical clip application assembly, comprising:

a surgical clip; and

a surgical clip applier having:

a hollow member having a proximal end and a distal end;

a clevis coupled to said distal end of said hollow member;

a first jaw rotatably coupled to said clevis;

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a second jaw rotatably coupled to said clevis in opposed relation to said first jaw, said first and second jaws adapted to apply said surgical clip to a location;

at least one pull/push wire coupled to said first and second jaws and extending through said hollow member to said proximal end of said hollow member; and

an actuator coupled to said proximal end of said hollow member and to said proximal end of said first push/pull wire for moving said first push/pull wire through said hollow member to cause a rotation of said first and second jaws about said clevis from an open to a closed position, wherein at least one of said jaws is provided with a plurality of teeth arranged to puncture and damage tissue adjacent to said surgical clip at said location.

27 (withdrawn). A surgical clip application assembly, comprising:

a surgical clip; and

a surgical clip applier having:

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a hollow member having a proximal end and a distal end;

a clevis coupled to said distal end of said hollow member;

a first jaw rotatably coupled to said clevis, said first jaw having a first clip guiding channel terminating in a first anvil;

a second jaw rotatably coupled to said clevis in opposed relation to said first jaw, said second jaw having a second clip guiding channel terminating in a second anvil, said first clip guiding channel and said second clip guiding channel guiding said surgical clip when disposed therebetween;

at least one pull/push wire coupled to said first and second jaws and extending through said hollow member to said proximal end of said hollow member; and

actuation means coupled to said proximal end of said hollow member and to said proximal end of said first push/pull wire for moving said first push/pull wire through said hollow member to cause a rotation of said first and second jaws about said clevis from an open to a closed position.

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28 (withdrawn). A surgical clip application assembly,  
comprising:

a surgical clip; and

a surgical clip applier having:

a hollow member having a proximal end and a distal end;

a clevis coupled to said distal end of said hollow member;

a first jaw rotatably coupled to said clevis, said first  
jaw having a first clip guiding channel terminating in a  
first anvil;

a second jaw rotatably coupled to said clevis in opposed  
relation to said first jaw, said second jaw having a second  
clip guiding channel terminating in a second anvil, said  
first clip guiding channel and said second clip guiding  
channel guiding said surgical clip when disposed  
therebetween;

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at least one pull/push wire coupled to said first and second jaws and extending through said hollow member to said proximal end of said hollow member; and

an actuator coupled to said proximal end of said hollow member and to said proximal end of said first push/pull wire for moving said first push/pull wire through said hollow member to cause a rotation of said first and second jaws about said clevis from an open to a closed position.

29 (withdrawn). An endoscopic surgical assembly, comprising:

a surgical clip; and

an endoscopic surgical instrument having:

a hollow member having a proximal end and a distal end;

a clevis coupled to said distal end of said hollow member;

a first end effector rotatably coupled to said clevis and adapted to apply said surgical clip to a location;

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a first pull/push wire extending through said hollow member to said proximal end of said hollow member;

a first linkage including a first rotating element rotatably coupled to said clevis and coupled to said first push/pull wire, and a second element rotatably coupled to said first element and rotatably coupled to said first end effector; and

actuation means coupled to said proximal end of said hollow member and to said proximal end of said first push/pull wire for moving said first push/pull wire through said hollow member to cause a rotation of said first end effector about said clevis.

30 (withdrawn). An endoscopic surgical assembly, comprising:

a surgical clip; and

an endoscopic surgical instrument having:

a hollow member having a proximal end and a distal end;

a clevis coupled to said distal end of said hollow member;

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a first end effector rotatably coupled to said clevis and adapted to apply said surgical clip to a location;

a first pull/push wire extending through said hollow member to said proximal end of said hollow member;

a first linkage including a first rotating element rotatably coupled to said clevis and coupled to said first push/pull wire, and a second element rotatably coupled to said first element and rotatably coupled to said first end effector; and

an actuator coupled to said proximal end of said hollow member and to said proximal end of said first push/pull wire for moving said first push/pull wire through said hollow member to cause a rotation of said first end effector about said clevis.

31 (withdrawn). An endoscopic surgical assembly, comprising:

a surgical clip; and

an endoscopic surgical instrument having:

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a hollow member having a proximal end and a distal end;

a clevis coupled to said distal end of said hollow member;

a first end effector rotatably coupled to said clevis and adapted to apply said surgical clip to a location;

a first pull/push wire extending through said hollow member to said proximal end of said hollow member;

a first linkage including at least one element rotatably coupled to said clevis and coupled to said first push/pull wire and coupled to said first end effector, said first linkage providing mechanical advantage in rotating said first end effector to apply said surgical clip to the location; and

actuation means coupled to said proximal end of said hollow member and to said proximal end of said first push/pull wire for moving said first push/pull wire through said hollow member to cause a rotation of said first end effector about said clevis.

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32 (withdrawn). An endoscopic surgical assembly, comprising:

a surgical clip; and

an endoscopic surgical instrument having:

a hollow member having a proximal end and a distal end;

a clevis coupled to said distal end of said hollow member;

a first end effector rotatably coupled to said clevis and adapted to apply said surgical clip to a location;

a first pull/push wire extending through said hollow member to said proximal end of said hollow member;

a first linkage including at least one element rotatably coupled to said clevis and coupled to said first push/pull wire and coupled to said first end effector, said first linkage providing mechanical advantage in rotating said first end effector to apply said surgical clip to the location; and

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an actuator coupled to said proximal end of said hollow member and to said proximal end of said first push/pull wire for moving said first push/pull wire through said hollow member to cause a rotation of said first end effector about said clevis.

33 (previously presented). An endoscopic surgical instrument, comprising:

a hollow member having a proximal end and a distal end;

a clevis coupled to said distal end of said hollow member;

a first end effector rotatably coupled to said clevis and adapted to grasp and manipulate tissue;

a first pull/push wire extending through said hollow member to said proximal end of said hollow member;

a first linkage including a first rotating element separate from said end effector, rotatably coupled to said clevis, and coupled to said first push/pull wire, and a second element rotatably coupled to said first element and rotatably coupled to said first end effector; and

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actuation means coupled to said proximal end of said hollow member and said proximal end of said first push/pull wire for moving said first push/pull wire through said hollow member to cause a rotation of said first end effector about said clevis.

34 (previously presented). An endoscopic surgical instrument, comprising:

a hollow member having a proximal end and a distal end;

a clevis coupled to said distal end of said hollow member;

a first end effector rotatably coupled to said clevis and adapted to grasp and manipulate tissue;

a first pull/push wire extending through said hollow member to said proximal end of said hollow member;

a first linkage including a first rotating element separate from said end effector, rotatably coupled to said clevis, and coupled to said first push/pull wire, and a second element rotatably coupled to said first element and rotatably coupled to said first end effector; and

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an actuator coupled to said proximal end of said hollow member and said proximal end of said first push/pull wire for moving said first push/pull wire through said hollow member to cause a rotation of said first end effector about said clevis.

35 (previously presented). An endoscopic surgical instrument, comprising:

a hollow member having a proximal end and a distal end;

a clevis coupled to said distal end of said hollow member;

a first end effector rotatably coupled to said clevis and adapted to grasp and manipulate tissue;

a first pull/push wire extending through said hollow member to said proximal end of said hollow member;

a first linkage including at least two elements:

a first of said two elements separate from said first end effector, rotatably coupled to said clevis, and coupled to said first push/pull wire; and

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a second of said two elements rotatably coupled to said first element and to said first end effector, said first linkage providing mechanical advantage in rotating said first end effector; and

actuation means coupled to said proximal end of said hollow member and to said proximal end of said first push/pull wire for moving said first push/pull wire through said hollow member to cause a rotation of said first end effector about said clevis.

36 (previously presented). An endoscopic surgical instrument, comprising:

a hollow member having a proximal end and a distal end;

a clevis coupled to said distal end of said hollow member;

a first end effector rotatably coupled to said clevis and adapted to grasp and manipulate tissue;

a first pull/push wire extending through said hollow member to said proximal end of said hollow member;

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a first linkage including at least two elements:

a first of said two elements separate from said first end effector rotatably coupled to said clevis and coupled to said first push/pull wire; and

a second of said two elements rotatably coupled to said first element and to said first end effector, said first linkage providing mechanical advantage in rotating said first end effector; and

an actuator coupled to said proximal end of said hollow member and said proximal end of said first push/pull wire for moving said first push/pull wire through said hollow member to cause a rotation of said first end effector about said clevis.

37 (previously presented). An endoscopic surgical instrument according to claim 16, wherein said second end effector has an enclosure adapted to apply the surgical clip.

38 (previously presented). An endoscopic surgical instrument according to claim 24, wherein said second end effector has an enclosure adapted to apply the surgical clip.

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39 (previously presented). An endoscopic surgical instrument, comprising:

a hollow member having a proximal end and a distal end;

a clevis coupled to said distal end of said hollow member;

an end effector separate from and rotatably coupled to said clevis and adapted to grasp and manipulate tissue;

at least one pull/push wire extending through said hollow member to said proximal end of said hollow member;

a linkage having:

a rotating element separate from said end effector, rotatably coupled to said clevis, and coupled to said first push/pull wire; and

a means for coupling said rotating element and said end effector; and

an actuator coupled to said proximal end of said hollow member and said proximal end of said push/pull wire for moving said

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push/pull wire through said hollow member to cause a rotation of said end effector about said clevis.

40 (previously presented). An endoscopic surgical instrument, comprising:

a hollow member having a proximal end and a distal end;

a clevis coupled to said distal end of said hollow member;

an end effector separate from and rotatably coupled to said clevis and adapted to grasp and manipulate tissue;

at least one pull/push wire extending through said hollow member to said proximal end of said hollow member;

a linkage having:

a rotating element separate from said end effector, rotatably coupled to said clevis, and coupled to said first push/pull wire; and

a couple coupling said rotating element and said end effector; and

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an actuator coupled to said proximal end of said hollow member and said proximal end of said push/pull wire for moving said push/pull wire through said hollow member to cause a rotation of said end effector about said clevis.